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WHAT IS CLAIMED IS:

1. A mirror rocking member for an optical deflector, which comprises the mirror rocking member for deflecting light, and driving means for driving the member, the mirror rocking member comprising:

a movable plate having a reflective surface; an elastic member for rockably supporting the movable plate; and

a support for supporting the elastic member, the movable plate having an electric element, which constitutes a part of the driving means, the movable plate including a first portion having the reflective surface, and a second portion including an electric element, the first portion having a reflective-surface forming surface with the reflective surface formed thereon, the second portion having an electric-element forming surface with the electric element formed thereon, and the reflective-surface forming surface having an area smaller than an area of the electric-element forming surface.

- 2. The mirror rocking member according to claim 1, wherein the reflective-surface forming surface of the first portion has a shape that is substantially inscribed with a shape of the electric-element forming surface of the second portion.
- 3. The mirror rocking member according to claim 2, wherein the electric-element forming surface

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of the second portion has a rectangular shape, and the reflective-surface forming surface of the first portion has an elliptical shape.

- 4. The mirror rocking member according to claim 1, wherein the movable plate, the elastic member, and the support are formed from a start wafer of a single-crystal silicon substrate.
- 5. The mirror rocking member according to claim 4, wherein the reflective-surface forming surface of the first portion has a dodecagon shape.
- 6. The mirror rocking member according to claim 4, wherein the first portion and the second portion of the movable plate are formed by processing the single-crystal silicon substrate in different shapes from opposite surfaces of the single-crystal silicon substrate by dry etching.
- 7. The mirror rocking member according to claim 4, wherein the single-crystal silicon substrate has a (100) plane orientation, the first portion of the movable plate is formed by processing the single-crystal silicon substrate by wet etching, and the second portion of the movable plate is formed by processing the single-crystal silicon substrate by dry etching.
- 25 8. The mirror rocking member according to claim 4, wherein the single-crystal silicon substrate has a (100) plane orientation, and the first portion

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and the second portion of the movable plate are formed by processing the single-crystal silicon substrate by wet etching, respectively.

- 9. The mirror rocking member according to claim 4, wherein a roundness (R) is applied to a concave corner portion of a step of the first portion and the second portion of the movable plate.
- 10. The mirror rocking member according to claim 1, wherein the movable plate, the elastic member, and the support are formed from a start wafer of a silicon-on-insulator (SOI) substrate, which comprises two single-crystal silicon layers and an intermediate insulating layer positioned between the single-crystal silicon layers, and the first portion and the second portion of the movable plate are partially constituted of the two single-crystal silicon layers, respectively.
- 11. The mirror rocking member according to claim 10, wherein the elastic member is constituted of a part of one of the two single-crystal silicon layers.
- 12. The mirror rocking member according to claim 10, wherein the first portion and the second portion of the movable plate are formed by processing the two single-crystal silicon layers by dry etching, respectively.
- 25 13. The mirror rocking member according to claim 10, wherein one of the two single-crystal silicon layers has a (100) plane orientation, the first portion

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of the movable plate is formed by processing the single-crystal silicon layer by wet etching, and the second portion of the movable plate is formed by processing the other one of the two single-crystal silicon layers by dry etching.

- 14. The mirror rocking member according to claim 10, wherein both the two single-crystal silicon layers have a (100) plane orientation, and the first portion and the second portion of the movable plate are formed by processing the two single-crystal silicon layers by wet etching, respectively.
- 15. The mirror rocking member according to claim 10, wherein a roundness (R) is applied to a concave corner portion of a step of the first portion and the second portion of the movable plate.
- 16. The mirror rocking member according to claim 1, wherein the electric element comprises a driving coil extending along a periphery of the movable plate, and the driving coil cooperates with a permanent magnet disposed in the vicinity of the driving coil to constitute the driving means.
- 17. The mirror rocking member according to claim 1, wherein the electric element comprises a pair of electrodes, which cooperate with a fixed electrode disposed opposite to the electrodes to constitute the driving means.
 - 18. A mirror rocking member for an optical

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deflector, which comprises the mirror rocking member for deflecting light, and driving means for driving the member, the mirror rocking member comprising:

a movable plate having a reflective surface; an elastic member for rockably supporting the movable plate; and

a support for supporting the elastic member, the movable plate having an electric element, which constitutes a part of the driving means, the movable plate having a reflective-surface forming surface with the reflective surface formed thereon, an electric-element forming surface with the electric element formed thereon, and at least one hollow formed inside the movable plate.

- 19. The mirror rocking member for the optical deflector according to claim 18, wherein the movable plate further has a reinforcing rib structure formed inside the movable plate, such that the movable plate has a large number of hollows.
- 20. The mirror rocking member for the optical deflector according to claim 19, wherein the reinforcing rib structure comprises a honeycomb structure.
- 21. The mirror rocking member for the optical deflector according to claim 20, wherein the reinforcing rib structure has a vent hole for

connecting an internal space of the movable plate to an external space.

22. A mirror rocking member for an optical deflector, which comprises the mirror rocking member for deflecting light, and driving means for driving the member, the mirror rocking member comprising:

a movable plate having a reflective surface; elastic members for rockably supporting the movable plate; and

a support for supporting the elastic members, the movable plate having an electric element, which constitutes a part of the driving means, the movable plate including a first portion having the reflective surface, and a second portion including an electric element, the first portion having a reflective-surface forming surface with the reflective surface formed thereon, the second portion having an electric-element forming surface with the electric element formed thereon, and the reflective-surface forming surface having an area smaller than an area of the electric-element forming surface.

23. A mirror rocking member for an optical deflector, which comprises the mirror rocking member for deflecting light, and driving means for driving the member, the mirror rocking member comprising:

a movable plate having a reflective surface;

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elastic members for rockably supporting the movable plate; and

a support for supporting the elastic members, the movable plate having an electric element, which constitutes a part of the driving means, the movable plate having a reflective-surface forming surface with the reflective surface formed thereon, an electric-element forming surface with the electric element formed thereon, and at least one hollow formed inside the movable plate.

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